

N^o 7099



A.D. 1898

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COMPLETE SPECIFICATION.

Improvements in or Relating to Artificial Teeth.

I, FRIEDRICH AUGUST WIENAND, of No. 8, Weiherstrasse, Pforzheim, in the German Empire, Dentist, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

- 5 My invention relates to the manufacture of artificial teeth, characterized by the arrangement that the pins are formed of metal covered with platinum, and their insertion in the teeth is effected after the latter are completed.
- Referring to the accompanying drawings—
- Figure 1 shows the back of such a tooth on an enlarged scale.
- 10 Figure 2 a section thereof on the line *x x* of Figure 1.
- Figures 3 and 4 show two modifications of Figure 2.
- Figure 5 shows the tooth in section with the pin inserted.
- Figure 6 shows the section of Figure 1 on the line *y y*.
- Figure 7 shows the composite pin also on an enlarged scale.
- 15 As will be obvious from Figure 1 to 6, the tooth *a* is provided at the back with two cavities *c*, which are made during or after the casting. These cavities may be of any suitable shape. Thus, in Figure 2 the cavity is dove-tailed, in Figure 3 it is globular, and in Figure 4 cylindrical and threaded. In these cavities the pins *b* having heads as shown in Figure 7 are inserted. These pins
- 20 are made of silver or other suitable metal covered with platinum. They may be secured in the teeth either in the cold by means of a cement or the like, or they may be smeltered in or soldered in. In such case any suitable smelting cement may be made use of such as that commonly used by dentists consisting of quartz, feldspar, common salt, saltpetre, oxide of tin, magnesia alba, and a suitable metallic oxide
- 25 for colouring purposes.
- As may be seen from the drawing the special form of the cavity prevents any loosening or falling out of the cement from the teeth. As the pins require to be inserted only after the artificial teeth are finished, that is to say, after the baking of the same, which takes place at a very high temperature, it is no
- 30 longer essential to make use of the very expensive platinum pins hitherto in use, but pins of any suitable metal may be employed. Consequently, a tooth is obtained which can be manufactured about one half more cheaply and which possesses nevertheless, the same durability, as the artificial teeth hitherto in use with platinum pins.
- 35 Having now particularly described and ascertained the nature of my said invention, and in what manner the same is to be performed, I declare that what I claim is:—

[Price 8d.]

Wienand's Improvements in or Relating to Artificial Teeth.

The improved artificial teeth having pins (*b*) of metal coated with platinum and inserted into cavities (*c*) in the back of said teeth after the furnacing process.

Dated the 23rd day of March 1898.

W. P. THOMPSON & Co.,
322, High Holborn, London, W.C., Patent Agents for the Applicant.

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Fig. 1.

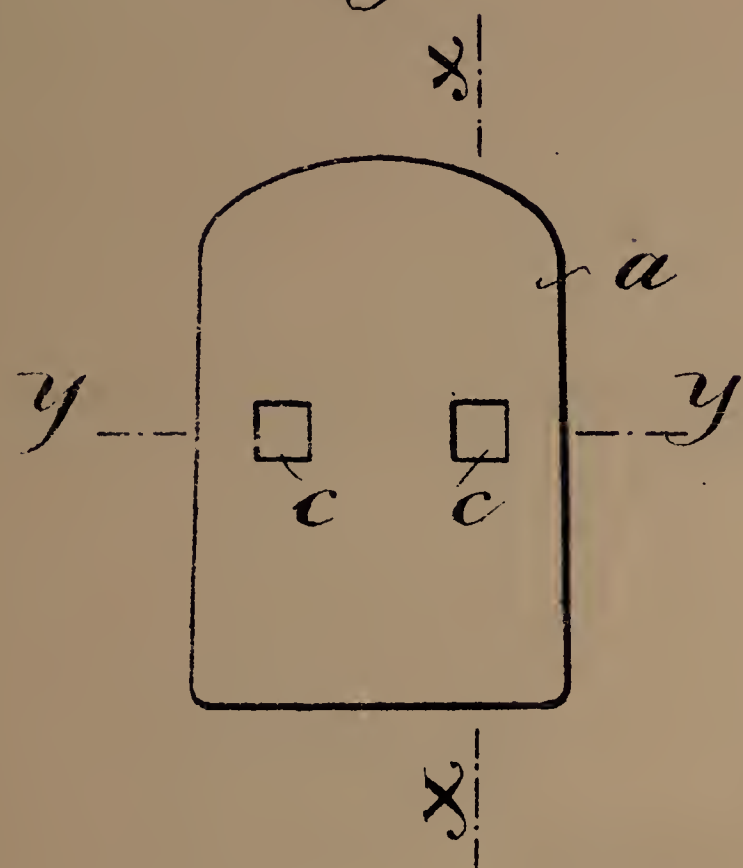


Fig. 2.

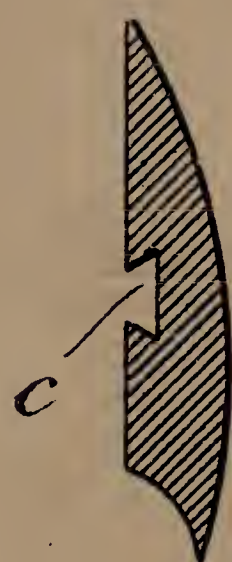


Fig. 3.

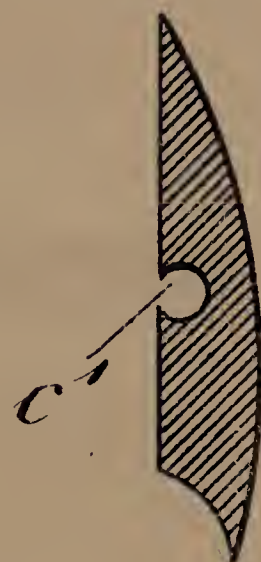


Fig. 4.



Fig. 5.



Fig. 7.

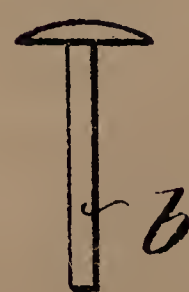
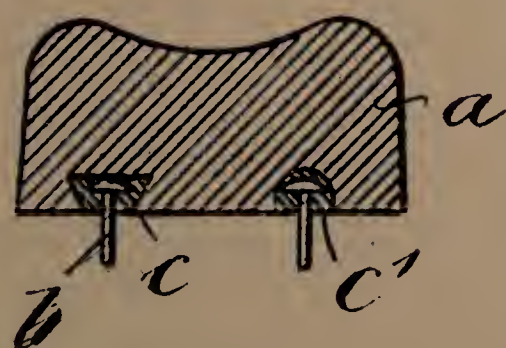


Fig. 6.



[This Drawing is a reproduction of the Original on a reduced scale.]

